

SEP 20 2007

Application No.: 10/700,785

Docket No.: JCLA11670

AMENDMENTIn The Claims:

Please amend the claims as follows:

1. (currently amended) An integrated audio/video sensor, comprising:

an image-receiving module for sensing an image;

a sound-receiving module for sensing a sound; and

a signal-transforming module for transforming the received image and the received sound into an audio/video signal which comprises a video signal component and an audio signal component;

wherein the signal-transforming module comprises an image-sensing chip for detecting the image and outputting the audio/video signal, an audio amplifier chip for detecting the sound, amplifying the sound detected and outputting the audio/video signal, and an audio/video processing chip for carrying out a post-processing of the audio/video signal.

2. (currently amended) The integrated audio/video sensor of claim 1, wherein the signal-transforming module further comprising comprises:

~~an image-sensing chip for detecting the image and outputting the audio/video signal;~~

~~an audio amplifier chip for detecting the sound, amplifying the sound detected and outputting the audio/video signal;~~

~~an audio/video processing chip for carrying out a post processing of the audio/video~~

Application No.: 10/700,785

Docket No.: JCLA11670

signal; and

a peripheral circuit chip.

3. (original) The integrated audio/video sensor of claim 2, wherein the image-sensing chip comprises a complementary metal-oxide-semiconductor (CMOS) image-sensing module or a charged coupled device (CCD).

4. (original) The integrated audio/video sensor of claim 1, wherein the signal-transforming module is fabricated by a multi-chip module (MCM) method or a system on a chip (SOC) method.

5. (original) The integrated audio/video sensor of claim 1; wherein the signal-transforming module transforms the received image and the received sound synchronously.

**Claim 6. (canceled)**

7. (original) The integrated audio/video sensor of claim 1, wherein the sound-receiving module comprises a condenser microphone.

8. (currently amended) An integrated audio/video signal processing system, comprising:  
an integrated audio/video sensor, comprising:

Application No.: 10/700,785

Docket No.: JCLA11670

an image-receiving module for sensing an image;

a sound-receiving module for sensing a sound; and

a signal-transforming module for transforming the received image and the received sound into an audio/video signal, wherein the signal-transforming module comprises an image-sensing chip for detecting the image and outputting the audio/video signal, an audio amplifier chip for detecting the sound, amplifying the sound detected and outputting the audio/video signal, and an audio/video processing chip for carrying out a post-processing of the audio/video signal; and

an audio/video system for post-processing the audio/video signal.

9. (currently amended) The integrated audio/video signal processing system of claim 8, wherein the signal-transforming module further comprising comprises:

~~an image-sensing chip for detecting the image and outputting the audio/video signal;~~

~~an audio amplifier chip for detecting the sound, amplifying the sound detected and outputting the audio/video signal;~~

~~an audio/video processing chip for carrying out a post processing process on the audio/video signal; and~~

a peripheral circuit chip.

10. (original) The integrated audio/video signal processing system of claim 9, wherein the image-sensing chip further comprises a complementary metal-oxide-semiconductor (CMOS)

Application No.: 10/700,785

Docket No.: JCLA11670

image-sensing module or a charged coupled device (CCD).

11. (original) The integrated audio/video signal processing system of claim 8, wherein the signal-transforming module is fabricated using either a multi-chip module (MCM) method or a system on a chip (SOC) method.

12. (original) The integrated audio/video signal processing system of claim 8, wherein the signal-transforming module transforms the received image and the received sound synchronously.

13. (original) The integrated audio/video signal processing system of claim 8, wherein the audio/video signal comprises a video signal component and an audio signal component.

14. (original) The integrated audio/video signal processing system of claim 8, wherein the sound-receiving module comprises a condenser microphone.

15. (new) The integrated audio/video sensor of claim 1, wherein the image-receiving module comprises a holder and a lens installed in an end of the holder, and the sound-receiving module and the signal-transforming module are installed in an opposite end of the holder.

16. (new) The integrated audio/video sensor of claim 15, wherein the sound-receiving module comprises an air cavity, and the signal-transforming module is accommodated in the air

Application No.: 10/700,785

Docket No.: JCLA11670

cavity.

17. (new) The integrated audio/video signal processing system of claim 8, wherein the image-receiving module comprises a holder and a lens installed in an end of the holder, and the sound-receiving module and the signal-transforming module are installed in an opposite end of the holder.

18. (new) The integrated audio/video signal processing system of claim 17, wherein the sound-receiving module comprises an air cavity, and the signal-transforming module is accommodated in the air cavity.